

Walter Wu

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EDUCATION

Stony Brook University

Stony Brook, NY

- Bachelor of Science in Applied Mathematics and Statistics
- Minor in Computer Science

Sep 2012 - Aug 2017

Udacity

- Machine Learning Engineer Nanodegree

Feb - Aug 2017

Coursera

- Machine Learning Specification

Nov 2016 - Jan 2017

SKILLS

Programming Languages:

Python* Java* JavaScript Go MIPS

* Advanced Skills

Tools:

TensorFlow* Scikit-learn* NumPy* Pandas* BeautifulSoup*
Docker Jupyter Notebook* Django AWS Spark
Git Linux PostgreSQL Kubernetes MATLAB

PROJECTS

Toxic Comment Detection

github.com/walter090/toxic_comments

- Experiment with multi-label text classification using CNN and LSTM with attention.
- Achieved an area under ROC curve of 0.976 with CNN and 0.983 with a stacked LSTM with attention model. Deployed the saved model with Docker and Kubernetes.

Jan - Mar 2018

GAN Image Colorization

github.com/walter090/noir2color

- Implemented and trained a conditional generative adversarial network (CGAN) model to colorize grayscale images using TensorFlow.
- Acquired the dataset by scraping Getty and Google image search results with BeautifulSoup; preprocessed the data using Pillow and scikit-image.

Jun - Aug 2017

Data visualization

github.com/walter090/fires_plot_web

- Visualized the data for the Montesinho natural park forest fires dataset using D3.js.
- Preprocessed the data with Pandas and Numpy and integrated the visualization tool with Django and deployed using Heroku.

Oct - Dec 2016

EXPERIENCE

Web Developer at be Waste Wise

New York, NY

- Designing and implementing a new webinar and user registration system for the website, making the site more user-friendly for people passionate about the environment.
- Building a system that analyzes the site traffic and displays contents based on users' tastes.

Dec 2017 - Present

Summer Intern at Lightbeam Technologies

Taizhou, China

- Helped designing and building a system that obtains and visualize data from emails.
- Parsed emails and web pages for data using BeautifulSoup and visualized the data using D3.js.
- Improved the process for email filtering and reduced the number of filtering errors.

Jun - Aug 2016